EAST Search History

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S175	791	(catalog$2 dictionar$3 network) near2 (semantic$)	US-PGPUB; USPAT	OR	ON	2006/03/16 20:27
S176	2	S175 and ((creat$3 generat$3) near2 (node element)) and (node near3 (metadata meta-data))	US-PGPUB; USPAT	OR	ON	2006/03/16 20:27
S177	905	(catalog$2 dictionar$3 network) near2 (semantic$ lexical)	US-PGPUB; USPAT	OR	ON	2006/03/16 20:27
S178	2	S177 and ((creat$3 generat$3) near2 (node element)) and (node near3 (metadata meta-data))	US-PGPUB; USPAT	OR	ON	2006/03/16 20:27
S179	79	(dictionar$3 catalog) with (semantic near2 (relation$5 network))	US-PGPUB; USPAT	OR	ON	2006/03/16 20:28
S180	4	S179 and ((creat$3 generat$3 mak$3) near2 (node element)) and ((node element) with (meta-data metadata (meta adj data)))	US-PGPUB; USPAT	OR	ON	2006/03/16 20:28

Published before December 2001
Terms used **data dictionary semantic node graph dependencies creating generating**

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Relevance scale

1 Semantic database modeling: survey, applications, and research issues

Richard Hull, Roger King
September 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 3
Publisher: ACM Press

Full text available: pdf(5.42 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Most common database management systems represent information in a simple record-based format. Semantic modeling provides richer data structuring capabilities for database applications. In particular, research in this area has articulated a number of constructs that provide mechanisms for representing structurally complex interrelations among data typically arising in commercial applications. In general terms, semantic modeling complements work on knowledge representation (in artificial int ...

2 A survey of structured and object-oriented software specification methods and techniques

Roel Wieringa
December 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 4
Publisher: ACM Press

Full text available: pdf(605.26 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article surveys techniques used in structured and object-oriented software specification methods. The techniques are classified as techniques for the specification of external interaction and internal decomposition. The external specification techniques are further subdivided into techniques for the specification of functions, behavior, and communication. After surveying the techniques, we summarize the way they are used in structured and object-oriented methods and indicate ways in w ...

Keywords: languages

3 Generating testing and analysis tools with Aria

Premkumar T. Devanbu, David S. Rosenblum, Alexander L. Wolf
January 1996 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 5 Issue 1

Publisher: ACM Press

Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Many software testing and analysis tools manipulate graph representations of programs, such as abstract syntax trees or abstract semantics graphs. Handcrafting such tools in conventional programming languages can be difficult, error prone, and time consuming. Our approach is to use application generators targeted for the domain of graph-representation-based testing and analysis tools. Moreover, we generate the generators themselves, so that the development of tools based on different langua ...

Keywords: Aria, Genoa, Reprise, application generators, program dependence graphs, program representations, software analysis, software testing, tools

4 Object orientation in multidatabase systems

Evaggelia Pitoura, Omran Bukhres, Ahmed Elmagarmid

June 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 2

Publisher: ACM Press

Full text available: pdf(4.85 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous, and autonomous database systems. There has been a recent proliferation of research suggesting the application of object-oriented techniques to facilitate the complex task of designing and implementing MDBSs. Although this approach seems promising, the lack of a general framework impedes any further development. The goal of this paper is to provide a concrete analysis and categorization of the various ...

Keywords: distributed objects, federated databases, integration, multidatabases, views

5 DAIDA: an environment for evolving information systems

M. Jarke, J. Mylopoulos, J. W. Schmidt, Y. Vassiliou

January 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 1

Publisher: ACM Press

Full text available: pdf(3.63 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We present a framework for the development of information systems based on the premise that the knowledge that influences the development process needs to somehow be captured, represented, and managed if the development process is to be rationalized. Experiences with a prototype environment developed in ESPRIT project DAIDA demonstrate the approach. The project has implemented an environment based on state-of-the-art languages for requirements modeling, design and implementation of informat ...

Keywords: knowledge engineering, mapping assistant, multi-level specification, repository, software information system, software process model

6 Incorporating hierarchy in a relational model of data

H. V. Jagadish

June 1989 **ACM SIGMOD Record , Proceedings of the 1989 ACM SIGMOD international conference on Management of data SIGMOD '89**, Volume 18 Issue 2

Publisher: ACM Press

Full text available: pdf(1.26 MB) Additional Information: full citation, abstract, references, citings, index

terms

We extend the relational model of data to allow classes as attribute values, thereby permitting the representation of hierarchies of objects. Inheritance, including multiple inheritance with exceptions, is clearly supported. Facts regarding classes of objects can be stored and manipulated in the same way as facts regarding object instances. Our model is upwards compatible with the standard relational model.

7 Automated construction of testing and analysis tools

Premkumar T. Devanbu, David S. Rosenblum, Alexander L. Wolf

May 1994 **Proceedings of the 16th international conference on Software engineering**

Publisher: IEEE Computer Society Press

Full text available: pdf(1.22 MB) Additional Information: full citation, references, citings

8 The model-assisted global query system for multiple databases in distributed enterprises

Waiman Cheung, Cheng Hsu

October 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 4

Publisher: ACM Press

Full text available: pdf(697.73 KB) Additional Information: full citation, abstract, references, citings, index terms

Today's enterprises typically employ multiple information systems, which are independently developed, locally administered, and different in logical or physical designs. Therefore, a fundamental challenge in enterprise information management is the sharing of information for enterprise users across organizational boundaries; this requires a global query system capable of providing on-line intelligent assistance to users. Conventional technologies, such as schema-based query languages and ha ...

9 A semantic meta-modelling approach to schema transformation

Mike P. Papazoglou, Nick Russell

December 1995 **Proceedings of the fourth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(951.04 KB) Additional Information: full citation, references, citings, index terms

10 Interoperability of multiple autonomous databases

Witold Litwin, Leo Mark, Nick Roussopoulos

September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3

Publisher: ACM Press

Full text available: pdf(2.66 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database systems were a solution to the problem of shared access to heterogeneous files created by multiple autonomous applications in a centralized environment. To make data usage easier, the files were replaced by a globally integrated database. To a large extent, the idea was successful, and many databases are now accessible through local and long-haul networks. Unavoidably, users now need shared access to multiple autonomous databases. The question is what the corresponding methodology ...

11 Federated database systems for managing distributed, heterogeneous, and autonomous databases

Amit P. Sheth, James A. Larson
September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3
Publisher: ACM Press

Full text available: pdf(5.02 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A federated database system (FDBS) is a collection of cooperating database systems that are autonomous and possibly heterogeneous. In this paper, we define a reference architecture for distributed database management systems from system and schema viewpoints and show how various FDBS architectures can be developed. We then define a methodology for developing one of the popular architectures of an FDBS. Finally, we discuss critical issues related to developing and operating an FDBS.

12 Conversion technology, an assessment

James P. Fry
July 1981 **ACM SIGMIS Database , ACM SIGMOD Record**, Volume 12,13 , 12 Issue 4,1 , 2
Publisher: ACM Press
Full text available: pdf(2.36 MB) Additional Information: full citation, references

13 Selected IR-Related Dissertation Abstracts

May 1991 **ACM SIGIR Forum**, Volume 25 Issue 1
Publisher: ACM Press
Full text available: pdf(2.71 MB) Additional Information: full citation, abstract

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, one or more Dissertation Abstracts International (DAI) subject descriptors chosen by the author, and abstract. Unless otherwise spec ...

14 Manipulating source code in DynamicDesign

James Bigelow, Victor Riley
November 1987 **Proceeding of the ACM conference on Hypertext**
Publisher: ACM Press

Full text available: pdf(924.67 KB) Additional Information: full citation, abstract, references, citings, index terms

DynamicDesign is a Computer-Aided Software Engineering environment for the C language with a layered system architecture for modularity and versatility. DynamicDesign is composed of facilities to edit hypertext objects, maneuver thorough hypertext graphs, build a hypertext graph from a set of existing C source files, and browse source code, documents and system requirements. This paper discusses the DynamicDesign facilities that deal with the source code, sourceBrowser, and source t ...

15 A graphical model of procedures for an automated manager's assistant

Michael Bauer, Sylvia Osborn
January 1982 **Proceedings of the ACM '82 conference**
Publisher: ACM Press
Full text available: pdf(476.45 KB) Additional Information: full citation, abstract, references, index terms

A model of office procedures based upon directed graphs is introduced. This model is being used as a basis for work on an office assistant which integrates office procedures performed by individuals and by the assistant. It also provides a framework for an interface to an on-line database system. This paper introduces the basic features of the

model, including a set of primitive actions which determine the semantics for the office procedures within the model.

16 Extending a relational database with deferred referential integrity checking and intelligent joins

Stephanie Cammarata, Prasadram Ramachandra, Darrell Shane

June 1989 **ACM SIGMOD Record , Proceedings of the 1989 ACM SIGMOD international conference on Management of data SIGMOD '89**, Volume 18 Issue 2

Publisher: ACM Press

Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references, citings, index terms

Interactive use of relational database management systems (DBMS) requires a user to be knowledgeable about the semantics of the application represented in the database. In many cases, however, users are not trained in the application field and are not DBMS experts. Two categories of functionality are problematic for such users: (1) updating a database without violating integrity constraints imposed by the domain and (2) using join operations to retrieve data from more than one relation. We ...

17 Programming languages and systems for prototyping concurrent applications

Wilhelm Hasselbring

March 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 1

Publisher: ACM Press

Full text available: pdf(559.78 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Concurrent programming is conceptually harder to undertake and to understand than sequential programming, because a programmer has to manage the coexistence and coordination of multiple concurrent activities. To alleviate this task several high-level approaches to concurrent programming have been developed. For some high-level programming approaches, prototyping for facilitating early evaluation of new ideas is a central goal. Prototyping is used to explore the ...

Keywords: concurrency, distribution, parallelism, rapid prototyping, very high-level languages

18 Heterogeneous distributed database systems for production use

Gomer Thomas, Glenn R. Thompson, Chin-Wan Chung, Edward Barkmeyer, Fred Carter, Marjorie Templeton, Stephen Fox, Berl Hartman

September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3

Publisher: ACM Press

Full text available: pdf(2.90 MB) Additional Information: full citation, abstract, references, citings, index terms, review

It is increasingly important for organizations to achieve additional coordination of diverse computerized operations. To do so, it is necessary to have database systems that can operate over a distributed network and can encompass a heterogeneous mix of computers, operating systems, communications links, and local database management systems. This paper outlines approaches to various aspects of heterogeneous distributed data management and describes the characteristics and architectures of ...

19 The GeoOOA-tool and its interface to open software development environments for GIS

Georg Kösters, Bernd-Uwe Pagel

November 1996 **Proceedings of the 4th ACM international workshop on Advances in**

geographic information systems
Publisher: ACM Press
Full text available: pdf(1.07 MB) Additional Information: full citation, references, index terms

20 Developing an object-oriented software testing and maintenance environment
David Kung, Jerry Gao, Pei Hsia, Yasufumi Toyoshima, Chris Chen, Young-Si Kim, Young-Kee Song
October 1995 **Communications of the ACM**, Volume 38 Issue 10
Publisher: ACM Press
Full text available: pdf(289.54 KB) Additional Information: full citation, abstract, references, citings, index terms

The object-oriented (OO) paradigm is rapidly gaining acceptance in the software industry. However, the powerful features of this new paradigm also introduce a new set of OO software testing and maintenance problems. The pioneering work in identifying these new problems includes [7, 10-12, 14, 16, 18]. The problems can be summarized as: 1) the understanding problem; 2) the complex interdependency problem; 3) the object state behavior testing problem; and 4) the tool support problem. Detailed ...

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Published before December 2001
Terms used **data dictionary semantic node graph dependencies creating generating**

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Relevance scale

21 Contemporary software development environments

William E. Howden
May 1982 **Communications of the ACM**, Volume 25 Issue 5
Publisher: ACM Press

Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, citings, index terms

There are a wide variety of software development tools and methods currently available or which could be built using current research and technology. These tools and methods can be organized into four software development environments, ranging in complexity from a simple environment containing few automated tools or expensive methods to a complete one including many automated tools and built around a software engineering database. The environments were designed by considering the life-cycle ...

22 A survey of issues to be considered in the development of an object-oriented development methodology for Ada

R. Ladden
March 1989 **ACM SIGAda Ada Letters**, Volume IX Issue 2
Publisher: ACM Press

Full text available: pdf(785.10 KB) Additional Information: full citation, citings, index terms

23 Model management and structured modeling: the role of an information resource dictionary system

D. R. Dolk
June 1988 **Communications of the ACM**, Volume 31 Issue 6
Publisher: ACM Press

Full text available: pdf(1.73 MB) Additional Information: full citation, abstract, references, citings, index terms

Models have historically occupied an ambiguous position within organizations. Management acceptance of management science and operations research models for decision-making has lagged far behind technical advances in these areas. Structured modeling has emerged as a unifying approach to the modeling process with potential to reduce this ambiguity. Structured modeling is primarily oriented to the individual,

however. A way of incorporating structured modeling into the organizational framewor ...

24 WISR8: 8th annual workshop on software reuse: summary and working group reports
Stephen H. Edwards, Bruce W. Weide
September 1997 **ACM SIGSOFT Software Engineering Notes**, Volume 22 Issue 5
Publisher: ACM Press
Full text available: pdf(1.71 MB) Additional Information: full citation, citings, index terms

25 Automatic segmentation of text into structured records
Vinayak Borkar, Kaustubh Deshmukh, Sunita Sarawagi
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data SIGMOD '01**, Volume 30 Issue 2
Publisher: ACM Press
Full text available: pdf(331.70 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we present a method for automatically segmenting unformatted text records into structured elements. Several useful data sources today are human-generated as continuous text whereas convenient usage requires the data to be organized as structured records. A prime motivation is the warehouse address cleaning problem of transforming dirty addresses stored in large corporate databases as a single text field into subfields like "City" and "Street". Existing to ...

26 DATAPLEX: an access to heterogeneous distributed databases
Chin-Wan Chung
January 1990 **Communications of the ACM**, Volume 33 Issue 1
Publisher: ACM Press
Full text available: pdf(1.14 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Diverse database management systems are used in large organizations. The heterogeneous distributed database system (DDS) can provide a flexible intergration of diverse databases for users and applications. This is because it allows for retrieval and update of distributed data under different data systems giving the illusion of accessing a single centralized database system.

Keywords: Prototype system

27 Applying multiple views to information systems: a preliminary framework
Dirk Baldwin
November 1993 **ACM SIGMIS Database**, Volume 24 Issue 4
Publisher: ACM Press
Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, index terms

Multiple views are essential to decision making. In science there are multiple views of light, and in economics there are Keynesian and Monetarist views of the economy. Decision makers exposed to multiple views might find that one view is more useful or they might synthesize various views to gain a better understanding of the situation. This paper adds to the understanding of multiple views by defining key terms and by presenting a scheme that highlights view differences. The definitions and con ...

28 Multi-media document representation and retrieval
Esen Ozkarahan, Fazli Can

April 1991 **Proceedings of the 19th annual conference on Computer Science**
Publisher: ACM Press
Full text available: pdf(1.10 MB) Additional Information: full citation, references, citings

29 Tool support for requirements formalisation
Jaelson F. B. Castro, Christian J. Gautreau, Marco A. Toranzo
October 1996 **Joint proceedings of the second international software architecture workshop (ISAW-2) and international workshop on multiple perspectives in software development (Viewpoints '96) on SIGSOFT '96 workshops**
Publisher: ACM Press
Full text available: pdf(793.25 KB) Additional Information: full citation, references, index terms

30 Functional specifications of reusable MIS software in Ada
G. S. Owen, R. Gagliano, P. Honkanen
March 1987 **Proceedings of the Joint Ada conference fifth national conference on Ada technology and fourth Washington Ada Symposium**
Publisher: George Washington University
Full text available: pdf(608.13 KB) Additional Information: full citation, references, citings, index terms

31 Tools for the storage and retrieval of reusable MIS software in Ada
G. S. Owen, R. Gagliano, P. Honkanen
February 1988 **Proceedings of the 1988 ACM sixteenth annual conference on Computer science**
Publisher: ACM Press
Full text available: pdf(574.96 KB) Additional Information: full citation, abstract, references, index terms

One of the most important keys to significant gains in programmer productivity is the development and use of reusable software. The possibility of reusable software is claimed as one of the potential strengths of the Ada language because the Ada package concept is an excellent mechanism for the development of reusable software. This research project addresses the problem of providing tools for the storage and retrieval of Reusable Software Components (RSCs) which consist of Ada packages and ...

Results 21 - 31 of 31 Result page: previous 1 **2**

Terms used **semantic network node metadata dependencies creating generating graph**

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Relevance scale

1 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 Authoring Support: Designing annotation before it's needed

Frank Nack, Wolfgang Putz

October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper considers the automated and semi-automated annotation of audiovisual media in a new type of production framework, A4SM (Authoring System for Syntactic, Semantic and Semiotic Modelling). We present the architecture of the framework and outline the underlying XML-Schema based content description structures of A4SM. We then describe tools for a news and demonstrate how video material can be annotated in real time and how this information can not only be used for retrieval but also can be ...

Keywords: MPEG-7, XML Schema, automated annotation, news production, semantic networks

3 Constructing queries from tokens

Amihai Motro

June 1986 **ACM SIGMOD Record , Proceedings of the 1986 ACM SIGMOD international conference on Management of data SIGMOD '86**, Volume 15 Issue 2

Publisher: ACM Press

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, citings, index terms

A database token is a value of either the data or the metadata. Usually, such tokens are combined with formal language constructs to form queries. In this paper we show how a given set of tokens may be completed to a proper query. This process provides a useful means of communication between naive users and databases, allowing them to express simple requests by listing several tokens. As the inferred query is always shown to the user, this process has a side effect of instructing the user i ...

4 Establishing the semantic web 1: SemTag and seeker: bootstrapping the semantic web via automated semantic annotation

Stephen Dill, Nadav Eiron, David Gibson, Daniel Gruhl, R. Guha, Anant Jhingran, Tapas Kanungo, Sridhar Rajagopalan, Andrew Tomkins, John A. Tomlin, Jason Y. Zien

May 2003 **Proceedings of the 12th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(178.36 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes Seeker, a platform for large-scale text analytics, and SemTag, an application written on the platform to perform automated semantic tagging of large corpora. We apply SemTag to a collection of approximately 264 million web pages, and generate approximately 434 million automatically disambiguated semantic tags, published to the web as a label bureau providing metadata regarding the 434 million annotations. To our knowledge, this is the largest scale semantic tagging effort to ...

Keywords: automated semantic tagging, data mining, information retrieval, large text datasets, text analytics

5 Schema mediation for large-scale semantic data sharing

Y. Halevy, G. Ives, Dan Suciu, Igor Tatarinov

March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(267.95 KB) Additional Information: full citation, abstract

Intuitively, data management and data integration tools should be well suited for exchanging information in a semantically meaningful way. Unfortunately, they suffer from two significant problems: they typically require a common and comprehensive schema design before they can be used to store or share information, and they are difficult to extend because schema evolution is heavyweight and may break backward compatibility. As a result, many large-scale data sharing tasks are more easily facilita ...

Keywords: Data integration, Peer data management, Schema mediation, Web and databases

6 Managing multiple and distributed ontologies on the Semantic Web

A. Maedche, B. Motik, L. Stojanovic

November 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(375.18 KB) Additional Information: full citation, abstract, citings, index terms

In traditional software systems, significant attention is devoted to keeping modules well separated and coherent with respect to functionality, thus ensuring that changes in the system are localized to a handful of modules. Reuse is seen as the key method in

reaching that goal. Ontology-based systems on the Semantic Web are just a special class of software systems, so the same principles apply. In this article, we present an integrated framework for managing multiple and distributed ontologies o ...

Keywords: Multiple and distributed ontologies, Ontology evolution

7 Selected IR-Related Dissertation Abstracts

May 1991 **ACM SIGIR Forum**, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(2.71 MB) Additional Information: full citation, abstract

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, one or more Dissertation Abstracts International (DAI) subject descriptors chosen by the author, and abstract. Unless otherwise spec ...

8 Mining multimedia data

Osmar R. Zaïane, Jiawei Han, Ze-Nian Li, Jean Hou

November 1998 **Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(377.84 KB) Additional Information: full citation, abstract, references, citings, index terms

Data Mining is a young but flourishing field. Many algorithms and applications exist to mine different types of data and extract different types of knowledge. Mining multimedia data is, however, at an experimental stage.We have implemented a prototype for mining high-level multimedia information and knowledge from large multimedia databases. MultiMedia Miner has been designed based on our years of experience in the research and development of a relational data mining system, DBMiner, in the Inte ...

Keywords: data cube, data mining, data warehousing, image analysis, information retrieval, multimedia, world-wide web

9 Special section on advanced XML data processing: Preservation of digital data with self-validating, self-instantiating knowledge-based archives

Bertram Ludäscher, Richard Marciano, Reagan Moore

September 2001 **ACM SIGMOD Record**, Volume 30 Issue 3

Publisher: ACM Press

Full text available: pdf(881.20 KB) Additional Information: full citation, abstract, references, index terms

Digital archives are dedicated to the long-term preservation of electronic information and have the mandate to enable sustained access despite rapid technology changes. Persistent archives are confronted with heterogeneous data formats, helper applications, and platforms being used over the lifetime of the archive. This is not unlike the interoperability challenges, for which mediators are devised. To prevent technological obsolescence over time and across platforms, a migration approach for per ...

10 Getting some perspective: using process descriptions to index document history

Paul Dourish, Richard Bentley, Rachel Jones, Allan MacLean

November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work**

Publisher: ACM Press

Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, citings, index terms

Process descriptions are used in workflow and related systems to describe the flow of work and organisational responsibility in business processes, and to aid in coordination. However, the division of a working process into a sequence of steps provides only a partial view of the work involved. In many cases, the performance of individual tasks in a larger process may depend on interpretations and understandings of how other aspects of the work were conducted.We p ...

Keywords: awareness, process execution, process modeling, visualisation, workflow

11 L3—towards an open learning environment

Torsten Leidig

March 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: pdf(131.06 KB) Additional Information: full citation, abstract, references, index terms

This article describe the use of dedicated ontology for teaching in the context of the L3 project, a national joint project for deploying further vocational education in Germany. The requirements for the open L3 learning infrastructure are presented in order to motivate our approach to metamodeling learning resources and services by using dedicated ontolgies of pedagogics and didactics. The basic concepts and parts ...

Keywords: adaptive courses delivery, authoring environment for web-based training, didatics, pedagogical ontology, reuse of learning resources

12 Production and maintenance environments for interactive audio-visual stories

Frank Nack, Craig Lindley

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**

Publisher: ACM Press

Full text available: pdf(392.02 KB) Additional Information: full citation, references, citings, index terms

13 Mediators over taxonomy-based information sources

Yannis Tzitzikas, Nicolas Spyratos, Panos Constantopoulos

March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(428.09 KB) Additional Information: full citation, abstract

We propose a mediator model for providing integrated and unified access to multiple taxonomy-based sources. Each source comprises a taxonomy and a database that indexes objects under the terms of the taxonomy. A mediator comprises a taxonomy and a set of relations between the mediator's and the sources' terms, called articulations. By combining different modes of query evaluation at the sources and the mediator and different types of query translation, a flexible, efficient scheme ...

Keywords: Approximate query translation, Information integration, Mediators, Taxonomies

14 Parsing semantic dependencies in associative networks

DeKang Lin
June 1990 **Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '90**
Publisher: ACM Press
Full text available: pdf(555.82 KB) Additional Information: full citation, references, index terms

15 POESIA: An ontological workflow approach for composing Web services in agriculture
Renato Fileto, Ling Liu, Calton Pu, Eduardo Delgado Assad, Claudia Bauzer Medeiros
November 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 4
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(726.49 KB) Additional Information: full citation, abstract, citings, index terms

This paper describes the POESIA approach to systematic composition of Web services. This pragmatic approach is strongly centered in the use of domain-specific multidimensional ontologies. Inspired by applications needs and founded on ontologies, workflows, and activity models, POESIA provides well-defined operations (aggregation, specialization, and instantiation) to support the composition of Web services. POESIA complements current proposals for Web services definition and composition by provi ...

Keywords: Composition of Web services, Data integration, Ontologies, Semantic Web, Semantics of data and processes

Results 1 - 15 of 15

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#1	((~~semantic network~~<in>metadata) <and> (creating node lexical<in>metadata))<and> (metadata<in>metadata)
#2	((~~semantic network~~ metadata<in>metadata) <and> (creating node lexical<in>metadata))
#3	(~~semantic network~~ metadata creating node lexical<in>metadata)
#4	(~~semantic network~~ metadata creating node lexical<in>metadata)
#5	((~~semantic network~~ metadata node lexical)<in>metadata)
#6	semantic network
#7	(~~semantic network~~<IN>metadata)
#8	7 and "lexical node"
#9	7 and "lexical node"
#10	7 and "lexical node"

Clear Session History